

Why Choose P.I.T. for your Computer-Aided Design Engineering (CAD) degree?

- Intimate Learning
 Function Environment and Family
 Atmosphere
- Learn at Your Own Pace with eLearning at P.I.T.
- √ Free Tutoring
- **√** Experienced Instructors
- Portfolio Building and Interview Coaching

A.S. Computer-Aided Design Engineering (CAD)

Enter into the world of digital engineering and design as a CAD specialist.

Achieve your goals quickly! In under two years, you can earn your college degree with our FLEXIBLE term scheduling.

What is a Computer-Aided Design (CAD) Engineer?

The CAD program emphasizes architectural, civil and mechanical design. CAD specialists prepare detailed drawings of buildings and other structures. Graduates may specialize in a type of structure, such as commercial or residential, or a type of material, such as timber or reinforced concrete. Graduates interested in mechanical design prepare detailed diagrams of machinery and mechanical devices. Graduates also prepare and provide instructions regarding the fabrication, assembly, and use of mechanical equipment, parts, and devices.

What kind of career can I expect?

CAD graduates generally work in an office at a computer work station. Employers include architectural, engineering, and construction firms in

manufacturing industries. Entry-level job titles include:

- CAD Operator
- CAD Designer
- CAD Specialist
- Architectural/Civil Drafter

Career potential includes positions such as:

- CAD Manager
- Lead Design Drafter



Where can I go after earning my degree at P.I.T.?

Program graduates who choose to further their education may transfer to a bachelor's degree program. Graduates of the A.S. in CAD program may sit for the ADDA (American Design Drafting Association) Drafter Certification Examination.

COMPUTER-AIDED DESIGN ENGINEERING (BME)

Associate in Science A.S. Recommended Course Sequence

| Code EGR 138 | Course (Credits) Engineering Graphic Design (3) | EGR 212 EGR 145 | Revit® (3) |
|-----------------|---|--|--|
| EGR 198 | Computer-Aided Design CAD I (3) | PSY 105 | Electronic Graphic Design (3) Introduction to Psychology (3) |
| SIT 203 | Basic Office Software Applications (3) | EGR 252 | Inventor (3) |
| EGR 278 | Computer-Aided Design CAD II (3) | EGR 365 | CAD Engineering Co-Op or (3) |
| ENG 108 | English Composition (3) | OR | |
| MTH 145 | College Algebra and Trigonometry (3) | | Free Elective (3) |
| EGR 108 | Mechanical Graphic Design I (3) | | |
| HUM 140 | Critical Thinking in the Modern Age (3) | PROGRAM TOTAL: 61 | |
| MTH 225 | Calculus I (4) | *Prerequisite coursework is required. | |
| EGR 124 | Architectural Graphic Design I (3) | NOTE: Additional course(s) may be required based on the results of a placement test. | |
| ENG 215 | Analytical Writing (3) | | |
| STR 134 | Engineering Mechanics (3) | | |
| EGR 113 | Mechanical Graphic Design II (3) | | |
| EGR 126 | Architectural Graphic Design II (3) | | |
| COM 108 | Communications and Social | | |
| | Interaction (3) | | |
| | | | |

Course Highlights

EGR 108—Mechanical Graphic Design

Students gain an understanding for standard machining processes and specific manufacturing tools, demonstrate the ability to utilize geometric tolerance dimensioning, the American National Standard Institute for machine processes, and demonstrate the ability to read and understand processes and symbols.

ENR 124—Architectural Graphic Design I

Students learn procedures/materials that are used for the Standard Principles of Residential Construction Systems; demonstrate the ability to design and draft various foundation systems; show the ability to design and draft floor, wall, and roof-framing systems; utilize standard applications and procedures used for "AutoCAD Architectural."

ENG 365-CAD Engineering CO-OP

Students are placed in workplaces in the region assisting professionals with CAD engineering projects. Students will demonstrate the knowledge acquired in the CAD Engineering program by completing CAD assignments. Placement at CAD-related workplaces is only available during the day. Students have the option of substituting a free elective course in place of this course.

TUITION INFORMATION

Number of Terms in Program Traditional – 7 Terms

Academic or Certification Achievement

Associate Degree for transfer to university or for employment

Tuition and Fees for Associate Degree Programs

- Tuition: \$390 per credit, plus tech fees
- Graduation Fee: \$100
- May exclude books and supplies, course or program fees.

*A detailed breakdown may be obtained in the financial aid office.